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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/753,470	01/03/2001	Dennis Michael Carney	BLD920000027US1 (0516)	1821
62626	7590	10/31/2007	EXAMINER	
DAVID W. LYNCH			PARK, CHAN S	
CHAMBLISS, BAHNER & STOPHEL			ART UNIT	PAPER NUMBER
1000 TALLAN BUILDING-T			2625	
TWO UNION SQUARE			MAIL DATE	
CHATTANOOGA, TN 37402			10/31/2007	
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			PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	09/753,470	CARNEY ET AL.
	Examiner CHAN S. PARK	Art Unit 2625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 19 September 2007.
 2a) This action is FINAL. 2b) This action is non-final.
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 21-39 is/are pending in the application.
 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
 5) Claim(s) _____ is/are allowed.
 6) Claim(s) 21-39 is/are rejected.
 7) Claim(s) _____ is/are objected to.
 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.
 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

DOUGLAS Q. TRAN
PRIMARY EXAMINER

 

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date _____
 5) Notice of Informal Patent Application
 6) Other: _____

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 8/29/06 has been entered.

Response to Amendment

2. Applicant's amendment was received on 9/19/07, and has been entered and made of record. Currently, **claims 21-39** are pending.

Claim Objections

Claims are objected to because of the following informalities:

3. Claim 24, lines 2-3, "presenting job attributes or status" should be -- presenting the job attributes or status information --;
4. Claim 24, lines 1-2, "the a repository and interface are provided by a job monitor" should be -- the a-repository and the interface are provided by a the job monitor --;
5. Claim 34, lines 1-2, "the a repository and interface are provided by a job monitor" should be -- the a-repository and the interface are provided by a the job monitor --;
6. Claim 35, lines 1-2, "the a repository and interface are provided by a job monitor" should be -- the a-repository and the interface are provided by a the job monitor --;
7. Claim 36, lines 1-2, "a job monitor" should be -- a the job monitor --;
8. Claim 37, lines 1-2, "a job monitor" should be -- a the job monitor --;
9. Claim 38, lines 1-2, "a job monitor" should be -- a the job monitor --;

Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 23-25, 27-29, 31, 37 and 38 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Art Unit: 2625

10. Claim 23 recites the limitation “components to process a job” in line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if the components are referring to the printer components or the plurality of components. If they are the printer components, don’t they already have the ability to process the job? Also, it is uncertain if this job is referring to the printer job recited in claim 22.

11. Claim 24 recites the limitation “the components” in line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if the components are referring to the printer components or the plurality of components recited in claim 22.

12. Claim 25 recites the limitation “a component” in line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if this component is referring to the printer component recited in claim 22.

13. Claim 27 recites the limitation “the component determining valid states for a call” in line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if this call is referring to the call by the printer component recited in claim 22. Furthermore, it is confusing if the component determining part is a result of the determination of a next job to process by the job monitor. What is the connection between the two limitations?

14. Claim 28 recites the limitations “a multiplexor” and “a multiplexer” in line 2. It is unclear if they are referring to a same component.

15. Claim 29 recites the limitations “the print engine” and “the spooler” in line 2. There is insufficient antecedent basis for this limitation in the claim.

16. Claim 31 recites the limitations "the spool device" and "the multiplexer". There is insufficient antecedent basis for this limitation in the claim.

17. Claim 37 recites the limitation "identification for a job" in line 3. There is insufficient antecedent basis for this limitation in the claim. It is uncertain if this job is referring to the printer job recited in claim 22.

18. Claim 38 recites the limitation "the variables associated with a job for the components" in line 2. There is insufficient antecedent basis for this limitation in the claim. It is unclear if the components are referring to the printer components or the plurality of components recited in claim 22. Also, it is uncertain if this job is referring to the printer job recited in claim 22.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 21-39 are rejected under 35 U.S.C. 102(e) as being anticipated by

Richter et al. U.S. Patent No. 6,678,068 (hereinafter Richter).

19. With respect to claim 22, Richter discloses an apparatus (print server 32 in fig. 6) for providing printer recognition and management of a print job entity (fig. 1), comprising:

 a repository of attributes and status information associated with each print job that passes through a printer system (col. 5, lines 15-30; col. 7, lines 25-32; col. 8, lines 20-64; & figs. 25~30);

 an interface to a plurality of components (figs. 1 & 6), the interface providing access to the attributes and status information in the repository by the plurality of components (clients computers 12); and

 a job monitor for managing the repository of attributes and status information associated with each print job (col. 5, lines 15-30; col. 7, lines 25-32; & col. 8, lines 20-64), for responding to a call by a printer component and for managing interactions between printer components in order to control the processing of the job (figs. 25~30).

20. With respect to claim 23, Richter discloses the apparatus of claim 22, wherein the interface provides an ability for components to process a job according to requirements of the components and reports job attributes and processing status of the job for common access by other components (col. 8, lines 5-19).

21. With respect to claim 24, Richter discloses the apparatus of claim 22, wherein the interface provides a component access to common variables, the components presenting the job attributes or the status information to the interface (col. 8, lines 5-19).

22. With respect to claim 25, Richter discloses the apparatus of claim 22, wherein the repository and the interface are provided by the job monitor further providing logical

views to obtain a next job to be processed by a component and to obtain a list of all jobs in the order that they are processed (figs. 25-30).

23. With respect to claim 26, Richter discloses the apparatus of claim 22, wherein the job monitor is used to update attributes of print jobs (col. 14, lines 27-38).

24. With respect to claim 27, Richter discloses the apparatus of claim 26, wherein the job monitor determines a next job to process, the component determining valid states for a call (col. 14, lines 27-38).

25. With respect to claim 28, Richter discloses the apparatus of claim 27, wherein the job monitor includes a multiplexor, and wherein the valid states for a multiplexer further comprise:

an unknown state for when a job identification is requested (col. 11, lines 11-22);
and

a pull print queue state for the job when the job is stop-flowed at a port connection manager waiting for access to the printer because a print engine is processing another job (col. 11, lines 46-58);

wherein the multiplexer receives the job and selects to place the job in a job must be spooled state, a may spool state or must print state (col. 11, lines 46-58).

Since the print server of Richter allows the interleaving of two or more signals to a single terminal, the print server is construed to be a multiplexor.

26. With respect to claim 29, Richter discloses the apparatus of claim 29, wherein the multiplexer routes the incoming job to the print engine or the spooler according to which becomes available first when the job is a job that may spool (col. 11, lines 46-57).

27. With respect to claim 30, Richter discloses the apparatus of claim 22, further comprising a spooler (fig. 6).
28. With respect to claim 31, Richter discloses the apparatus of claim 30, wherein the spooler receiving a job identification request, enters a not spooled state when the spooler has not yet processed the job, enters a spooling, can despool state when the job is being written to the spool device thereby allowing the job to be selected for despoiling at any time, enters a spooling, despoiling state when the job is being written to the spool device and is also being read from the spool device, enters a waiting to despool state when the end of the job has been received, enters a despoiling state when the job is being read from the spool device and written to the multiplexer and enters the done state when the job is finished being processed by the spooler (col. 11, lines 46-57 & fig. 28).
29. With respect to claim 32, Richter discloses the apparatus of claim 22, further comprising an interpreter (fig. 6 & col. 7, line 58 ~ col. 8, line 4).
30. With respect to claim 33, Richter discloses the apparatus of claim 32, wherein the interpreter enters a waiting for data state when job processing by the interpreter has started, enters an interpreting state when the job is being processed by the interpreter and enters a done state when the job is finished being processed by the interpreter (col. 11, lines 33-58).
31. With respect to claim 34, Richter discloses the apparatus of claim 22, wherein the repository and interface are provided by the job monitor, the job monitor further handling incoming jobs with a port connection manager, wherein the port connection

manager calls to a multiplexer to process the job (col. 11, lines 33-58). Since the print server of Richter allows the interleaving of two or more signals to a single terminal, the print server is construed to be a multiplexor.

32. With respect to claim 35, Richter discloses the apparatus of claim 22, wherein the repository and interface are provided by the job monitor, the job monitor further deciding whether to assign a job to the printer, whether to assign a job to a spooler, whether the job must wait for available resources or whether the job cannot be processed (col. 11, lines 46-58 & fig. 16).

33. With respect to claim 36, Richter discloses the apparatus of claim 22, further comprising the job monitor to fetch jobs in an order that is dependent upon the calling component (col. 11, lines 33-58).

34. With respect to claim 37, Richter discloses the apparatus of claim 36, further comprising the job monitor for examining process job states and variables to determine the correct response and to return an appropriate job identification for a job (col. 11, lines 33-58 & fig. 28).

35. With respect to claim 38, Richter discloses the apparatus of claim 22, further comprising the job monitor for providing a common method of accessing the variables associated with a job for the components (figs. 28).

36. With respect to claims 21 and 39, arguments analogous to those presented for claim 22, are applicable.

Contact Information

37. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHAN S. PARK whose telephone number is (571) 272-7409. The examiner can normally be reached on M-F 8am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Moore can be reached on (571) 272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

DOUGLAS Q. TRAN
PRIMARY EXAMINER

Chan S. Park
Examiner
Art Unit 2625

csp
October 25, 2007

Tranboul *Chan S. Park*